

WHAT IS CLAIMED IS:

Sub A 1. A system monitoring system comprising:
external monitoring means for monitoring the state of a controller in an apparatus to be monitored, the state being obtained when a control program stored in storage means in the apparatus controls, via an internal bus of the apparatus, said controller to operate; and

bus-access detection means for detecting, in real time, based on internal bus information, information on the accessing of said internal bus by said controller;

wherein said information on the accessing of said internal bus by said controller is output to said external monitoring means with the timing of the accessing.

2. A system monitoring system according to Claim 1, further comprising execution address detection means for detecting execution address information of said external monitoring means in real time based on said internal bus information,

wherein the execution address information is output to said external monitoring means with the timing of the accessing.

3. A system monitoring system according to Claim 1,

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subA further comprising a display for displaying said information on the accessing of said internal bus by said controller.

4. A system monitoring system according to Claim 2, further comprising display means for displaying said execution address information.

5. A system monitoring system according to Claim 3, wherein said display means numerically displays data on said internal bus when latching the data.

6. A system monitoring method for monitoring, by external monitoring means, the state of a controller in an apparatus to be monitored, the state being obtained when a control program stored in storage means in the apparatus controls, via an internal bus of the apparatus, said controller to operate, said system monitoring method comprising the steps of:

using bus-access detection means to detect, in real time, based on internal bus information, information on the accessing of said internal bus by said monitoring means; and

outputting said information on the accessing of said internal bus by said monitoring means to said external monitoring means with timing of the accessing.

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outputting the execution address information to said external monitoring means with the timing of the accessing.

9. A system monitoring method according to Claim 7, further comprising the step of displaying on display means said execution address information.

10. A system monitoring method according to Claim 8, further comprising the step of numerically displaying data on said internal bus when latching the data.